

**Math Connects: Concepts, Skills, and Problem Solving, Course 3, KY Edition**

Math Connects: Concepts, Skills, and Problem Solving was written by the authorship team with the end results in mind. They looked at the content needed to be successful in Geometry and Algebra and backmapped the development of mathematical content, concepts, and procedures to PreK to ensure a solid foundation and seamless transition from grade level to grade level. The series is organized around the new NCTM Focal Points and is designed to meet most state standards. Math Connects focuses on three key areas of vocabulary to build mathematical literacy, intervention options aligned to RtI, and a comprehensive assessment system of diagnostic, formative, and summative assessments. This program ensures complete and in-depth coverage of the Kentucky Combined Curriculum, including the Program of Studies and the Related Core Content for Assessment, by providing a pacing guide, correlations, Countdown to the KCCT, and standards written out at point of use in each lesson.

Multiple Teacher Editions listed on Teacher Edition Worksheet

Teacher Edition	
0078804914	\$75.00
Math Connects: Concepts, Skills, and Problem Solving, Course 3, KY Edition	
0078882702	\$75.00
Math Connects: Concepts, Skills, and Problem Solving, Course 3, KY Edition	
Essential Items	
Ancillary Items	
Free with Purchase items	
0078746450	Scanner
Free Per School (Ratio 1 free Per 250 Student Editions Purchased): Print Option Only (NOT AVAILABLE)	
0078746493	Turning Point Response Technology System & Software
Hardware Choice: Choose 1 of 4 Options Per Teacher (0078746493 or 0078762324 or 0078885310 or 0078756448)	
0078756448	Interactive Whiteboard System & Software
Hardware Choice: Choose 1 of 4 Options Per Teacher (0078746493 or 0078762324 or 0078885310 or 0078762324)	
0078762324	Laptop
Hardware Choice: Choose 1 of 4 Options Per Teacher (0078746493 or 0078762324 or 0078885310 or 0078766036)	
0078766036	Graphing Calculator Easy Files CD-ROM
Free Per Teacher, Print Option Only	
0078773172	ELL Strategies for the Mathematics Classroom
Free Per Teacher, Print Option Only	
0078782953	Graphic Novels
Free Per Teacher, Print Option Only	
0078788447	Implementation Module Gr 6-8 CD-ROM
Free Per School, Print Option Only	
0078788951	Skills Maintenance Workbook
Choice A: Choose 2 of 3 items per student, Print Option Only	
0078788978	Real-World Investigations for Differentiated Instruction
Free Per Teacher, Print Option Only	
0078795826	Teacher Classroom Resources
Free per Teacher, Print Option Only & Free Per School, Tech Option Only	
0078805538	ExamView® Assessment Suite CD-ROM
Free Per Teacher, Print & Tech Option	
0078805627	Interactive Classroom CD-ROM
Free Per Teacher, Print & Tech Option	
0078810752	Skills Practice Workbook
Choice B: Choose 1 of 3 items per student, Print Option Only (1st year of adoption, subsequent years)	
0078810760	Study Guide & Intervention Workbook
Choice A: Choose 2 of 3 items per student, Print Option Only	
0078810779	Word Problem Practice Workbook
Choice B: Choose 1 of 3 items per student, Print Option Only (1st year of adoption, subsequent years)	
0078810795	Skills Practice Workbook, Spanish

ISBN**0078804906**Contract Price

\$59.70

Grade

8

TYPE

P1

Copyright

2010

Author

Bailey, et al

Edition

1

Content

8th Grade Math

Readability

900 Lexile

Accessibility

Nimas

Research

www.glencoe.com

**Math Connects: Concepts, Skills, and Problem Solving, Course 3, KY Edition**

Free Per School, Print Option Only

0078810809	Study Guide & Intervention Workbook, Spanish	\$3.99
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Free Per School, Print Option Only

0078810817	Word Problem Practice Workbook, Spanish	\$3.99
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Free Per School, Print Option Only

0078810825	Practice Workbook, Spanish	\$3.99
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Free Per School, Print Option Only

0078810833	Spanish Assessment Masters	\$19.50
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Free Per School, Print Option Only

0078810841	Noteables: Interactive Study Notebook with Foldables, Teacher	\$28.50
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Free Per Teacher, Print Option Only

0078885310	Projector	
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Hardware Choice: Choose 1 of 4 Options Per Teacher (0078746493 or 0078762324 or 0078885310 or

0078885469	AssignmentWorks™ CD-ROM	\$49.98
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Free Per Teacher, Print &amp; Tech Option

0078902436	KY StudentWorks™ Plus CD-ROM	\$77.70
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Choice of Either DVD or CD-ROM format, Free per Student, Print &amp; Tech Options

Evaluation Tool for Basal Instructional Materials  
Mathematics (2009 – 2015)

Provided by the Publisher	ISBN 0078804906		Publisher - <b>Glencoe/McGraw-Hill</b>	
	<b>Math Connects: Concepts, Skills, and Problem Solving, Course 3, KY Edition</b>			
	Type - P1	Author - Bailey, et al		
	Copyright - 2010	Edition - 1	Readability - 900 Lexile	
	Course - 8th Grade Math		Grade(s) - 8	
	Teacher Edition ISBN if applicable .....0078804914			

**Overall Recommendation:**

**Recommended as BASAL**

**Overall Strengths, Weaknesses, Comments:**

if this box is not checked, the evaluators have  
chosen NOT recommend as basal

**Caution! Some of the concepts in this textbook may be advanced for some 8<sup>th</sup> graders. There are several algebra concepts that students may not be ready for. Careful planning with this textbook will be the key to success.**

NIMAC Accessibility      N  
Ancillary                      No  
Free with Purchase        Yes  
Research                      Yes      www.glencoe.com

Math Connects: Concepts, Skills, and Problem Solving was written by the authorship team with the end results in mind. They looked at the content needed to be successful in Geometry and Algebra and backmapped the development of mathematical content, concepts, and procedures to PreK to ensure a solid foundation and seamless transition from grade level to grade level. The series is organized around the new NCTM Focal Points and is designed to meet most state standards. Math Connects focuses on three key areas of vocabulary to build mathematical literacy, intervention options aligned to RtI, and a comprehensive assessment system of diagnostic, formative, and summative assessments. This program ensures complete and in-depth coverage of the Kentucky Combined Curriculum, including the Program of Studies and the Related Core Content for Assessment, by providing a pacing guide, correlations, Countdown to the KCCT, and standards written out at point of use in each lesson.

**CRITERIA**

This basal resource ...

**A. Encompasses KY Content Standards & Grade Level Expectations    Strong Evidence**

Text is designed to be used in an elective course outside the Program of Studies

**1) Includes the 5 Big Ideas of mathematics to the following extent:**

- |  |                   |
|--|-------------------|
| <b>a) Number Properties and Operations</b> | Strong Evidence   |
| <b>b) Measurement</b>                      | Moderate Evidence |
| <b>c) Geometry</b>                         | Moderate Evidence |
| <b>d) Data Analysis and Probability</b>    | Strong Evidence   |
| <b>e) Algebraic Thinking</b>               | Strong Evidence   |

<b>2) Addresses content-specific enduring understandings from the related Program of Studies standards.</b>	Strong Evidence
<b>3) Addresses content-specific skills and concepts from the related Program of Studies standards.</b>	Moderate Evidence
<b>4) Content addressed is current, relevant and non-trivial</b>	Strong Evidence
<b>5) Provides opportunities for critical thinking/reasoning</b>	Strong Evidence
<b>6) Strengths, Weaknesses, Comments:</b> <ul style="list-style-type: none"> <li>• Specific strengths-which areas/concepts are covered exceptionally well?</li> <li>• Specific weaknesses-which areas/concepts would likely require supplementing?</li> </ul> <p>Basic skills that might be needed for some students are reserved for the back of the textbook in the Concept Skills Bank. Teacher would have to know this exists for some students to be able to access for assistance.</p>	

<b>B. Functionality &amp; Suitability</b>	<b>Strong Evidence</b>
<b>1) Suitability</b> <ul style="list-style-type: none"> <li>• Should be suitable for use with a diverse population and is free of bias regarding race, age, ethnicity, gender, religion, social and/or geographic environment; is free of stereotyping or bias of any kind.</li> </ul>	<b>Moderate Evidence</b>
<b>2) Content quality</b> <ul style="list-style-type: none"> <li>• Free from factual errors</li> <li>• Content is presented conceptually when possible—more than a mere collection of facts</li> <li>• Content included accurately represents the knowledge base of the discipline</li> <li>• Theories/scientific models contained represent a broad consensus of the scientific community</li> <li>• Interconnections among mathematical topics</li> </ul>	<b>Strong Evidence</b>
<b>3) Connections to Literacy</b> <ul style="list-style-type: none"> <li>• Employs a variety of reading levels and is grade/level appropriate</li> <li>• Use of multiple representations-concrete, visual/spatial, graphs, charts, etc.</li> <li>• Provides opportunities for summarizing, reviewing, and reinforcing vocabulary skills and concepts at multiple levels of difficulty for a variety of learning styles.</li> <li>• Student text provides opportunity to integrate reading and writing</li> <li>• Uses vocabulary that is age and content appropriate</li> <li>• Focuses on critical vocabulary vs. extensive lists</li> <li>• Identifies key vocabulary through definitions in both text and glossary</li> <li>• The text is engaging and facilitates learning</li> <li>• Embedded activities enhance the understanding of the text</li> </ul> <p><i>Note: may apply to either student or teacher editions</i></p>	<b>Strong Evidence</b>
<b>4) Connections to Technology</b> <ul style="list-style-type: none"> <li>• Integrates technology and reflects the impact of technological advances</li> <li>• Uses technology in the collection and/or manipulation of authentic data</li> <li>• Embeds web links as a mathematics resource.</li> </ul>	<b>Strong Evidence</b>
<b>5) Support for Diverse Learners</b> <ul style="list-style-type: none"> <li>• Provides support for ESL students</li> </ul>	<b>Strong Evidence</b>

Evaluation Tool for Basal Instructional Materials  
Mathematics (2009 – 2015)

- Provides support for differentiation of instruction in diverse classrooms
- Challenge for gifted and talented students
- Support for students with learning difficulties

*Note: may apply to either student or teacher editions*

**6) Strengths, Weaknesses, Comments:**

- Reviewers may provide page numbers to point out specific strong examples for individual evaluation standards.

For students who struggle with basic concepts that are needed for the higher level skills in this textbook, they would need to flip to the back of the textbook in order to receive the needed remediation.

Graphing calculator connections are well integrated. The textbook is well presented for the diverse learners (AL BL ON etc).

**C. Supports Inquiry and Skill Development**

**Strong Evidence**

**1) Promotes Inquiry, research and Application of Learning** Strong Evidence

- Provides opportunities for inquiry and research that includes activities such as gathering information, researching resources, observing, interviewing, and evaluating information, analyzing and synthesizing data and communicating findings and conclusions, formulating authentic questions to deepen and extend mathematical reasoning.
- Requires students to use higher-level cognitive skills (analysis, synthesis, evaluation, generalizing, justifying, etc.)
- Provides activities and projects for students to deepen their knowledge and cultivate and strengthen problem-solving and decision-making skills.
- Provides opportunities for application of learned concepts.
- Uses a variety of relevant charts, graphs, diagrams, number lines, and other illustrations to invite and motivate students to engage in discussion, problem solving, and other high-order thinking skills.
- Emphasizes conceptual understandings that invite students to predict, conclude, evaluate, develop and extend ideas to support reasoning.

*Note: may apply to either teacher or student edition*

**2) Skill Development**

**Strong Evidence**

- Provides opportunities to make sense of all mathematics
- Provides opportunities to recognize, create, and extend patterns.
- Provides opportunities for critical thinking and reasoning.
- Provides opportunities to justify/prove responses.
- Provides opportunities to ask deeper questions.
- Contains embedded activities (or extensions) that emphasize use of technology for problem solving

*Note: may apply to either teacher or student edition*

**3) Strengths, Weaknesses, Comments:**

Textbook representations are great! The features (graphs, number line models, etc.) enhance the understanding for students who are visual learners.

**D. Supports Best Practices of Teaching and Learning**

**Strong Evidence**

**1) Engages Students**

Strong Evidence

- Includes content geared to the needs, interests, and abilities of all students
- Engages and motivates students using components such as real-life situations, simulations, experiments, and data gathering.
- Includes information and activities that assist students in seeing relevance of concepts (where appropriate) to their own lives and experiences
- Provides a variety of strategies, activities, and materials to enhance student learning at the appropriate learning levels
- Activities are truly congruent to the concepts addressed, not merely correlated

*Note: may apply to either teacher or student edition*

**2) Uses Assessment to Inform Instruction**

Strong Evidence

- Includes multiple means of assessment as an integral part of instruction
- Provides evaluation measures in the teacher edition that supports differentiated learning activities
- Embedded assessments reflect a variety of Depth of Knowledge levels

*Note: may apply to either teacher or student edition*

**3) Strengths, Weaknesses, Comments:**

- Reviewers may provide page numbers to point out specific strong examples for individual evaluation standards

Practice Test section of textbook gives students an opportunity to self-assess and points them in the right direction of where to get help on specific questions that they missed.

Pictures/problem scenarios are very appealing to the age group. Nice use of ipod downloads, etc. in problems.

**E. Has an Organization/ Format that Supports Learning and Teaching**

Moderate Evidence

**1) Organizational Quality**

Strong Evidence

- Print and/or electronic materials present minimal barriers to learners, but also add encouragement for students to stretch and make further explorations.
- Presents chapters/lessons in an organized and logical sequence
- Provides clearly stated objectives for each lesson.
- Uses text features (e.g., titles, headings, subheadings, review questions, goals, objectives, space, print, type size, color) to enhance readability.
- Makes use of various forms of media (e.g., CD's, recordings, videos, cassette tapes, computer software, web-based components, interactive software, calculators, physical and virtual manipulatives) as either student or teacher resources
- Includes clear, accurate, appropriate and clearly explained illustrations and/or graphics that reinforce content standards.
- Incorporates a glossary, footnotes, recordings, pictures, and/or tests that aid pupils and teachers in using the book effectively
- Uses grade-appropriate type size
- Included media are durable, easy to use and have technical merit
- Construction appears to be durable and able to withstand normal use

**2) Essential Components (beyond student and teacher text)**

Little or No Evidence

- Items identified as essential components support the learning goals and concept coverage of the

basal

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**3) Strengths, Weaknesses, Comments:**

- Reviewers may provide page numbers to point out specific strong examples for individual evaluation standards.

A great deal of information (basic skills/concepts) is reserved for the back of the textbook. No essential components are included with the cost of the textbook.

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**F. Has available Ancillary/ Gratis Materials**

*Note: The decision whether to recommend or not recommend this resource as a basal should not be influenced by Section F*

**Strong Evidence**

**1) Ancillary/Gratis Materials**

- Coordinates teacher resources easily with student material (e.g., accompaniments included, student pages shown, instructional technology indicated).
  - Are well-organized and easy to use
  - Provide substantive learning opportunities and are congruent with student learning goals
  - Provide opportunities for high-level thinking, assessment, and/or problem solving
  - Provides opportunities for intervention.
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**2) Strengths, Weaknesses, Comments:**

- Reviewers may provide page numbers to point out specific strong examples for individual evaluation standards.

Interactive study notebook, problem solving graphic novels (comic strip math resource book) are nice supplements to the textbook.

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